Applicant(s)/Patent under Reexamination Application/Control No. Index of Claims 09/762,922 EINAMO, KARI Examiner Art Unit Un C. Cho 2687 (Through numeral) Cancelled Rejected Non-Electe **Allowed** Restricted Interference

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| Cla  | aim      | Date          |         |                 |          |          | ]        | Claim Date |   |                        |              |                 |          |          |         | Cla                | aim             | Date            |          |          |          |              |   |          |          |          |          |          |          |              |           |
|--|----------|---------------|---------|-----------------|----------|----------|----------|------------|---|------------------------|--------------|-----------------|----------|----------|---------|--------------------|-----------------|-----------------|----------|----------|----------|--------------|---|----------|----------|----------|----------|----------|----------|--------------|-----------|
| _  | <u>~</u> | က္ခ           |         |                 |          |          |          |            |   | _                      | <del>-</del> |                 |          |          |         |                    |                 | 1 1             |          |          | _        | <del>a</del> |   |          |          |          |          |          |          |              |           |
| Final  | Original | 8/10/05       |         |                 |          |          |          |            |   | Final                  | Original     |                 |          | - [      |         |                    |                 |                 |          |          | Final    | Original     |   |          |          |          |          |          |          |              |           |
| ш  | ő        | 8             |         | 1 1             |          |          |          |            |   | L.                     | Ö            |                 | j        |          |         |                    |                 |                 |          |          | Œ        | Ç            |   |          |          |          |          |          | 1        |              |           |
|  |          | 1 1           | +       | $\vdash \vdash$ | $\dashv$ | _        | _        | - -        | ł | ļ                      |              | Н               | _        | +        | $\bot$  | +-                 | -               |                 |          | Ļ        |          |              |   | _        |          |          |          | Ш        | _        | _            |           |
| <u> </u>   | 1        | 1             | +-      | $\vdash$        | $\dashv$ | 4        | -        |            | 1 |                        | 51           | $\vdash$        | 4        | +        | +       | +                  | -               | Ш               | _        | }        |          | 101          |   | _        | _        | _        |          | Щ        | _        | _            |           |
| <u> </u>   | 3        | 1             | +       | ├               | $\dashv$ | -        | +        | +          | ┨ | <u> </u>               | 52<br>53     | $\vdash$        | -        | +        | +       | +                  | ┼               | $\vdash \vdash$ | $\dashv$ | -        |          | 102          | _   | _        |          |          | <u> </u> | $\Box$   | $\dashv$ | _            |           |
| <u> </u>   | 4        | 1             | +       | ╁┼              | $\dashv$ | -        | -        | +          | { | <u> </u>               | 54           | $\vdash$        | -+       | +        | +       | -                  | ┼               |                 |          | ŀ        |          | 103          | _   | -        |          | _        |          |          | _        | -            | _         |
|  | 5        | 1             | +-      | ╁┼              | +        | $\dashv$ | $\dashv$ | ╁          | ┨ | <u> </u>               | 55           | $\vdash$        | $\dashv$ | +        | ╁       | +                  | ╁╌              |                 | -        | ŀ        |          | 104<br>105   | $\dashv$  | $\dashv$ | _        | ⊢        | Н        | -        | $\dashv$ | -            | _         |
| <u> </u>   | 6        | V             | +-      | $\vdash$        | $\dashv$ | $\dashv$ | -        | ┪          | 1 |                        | 56           | $\vdash$        | $\dashv$ |          | +       | +                  | +-              | $\vdash$        | -        | ŀ        |          | 106          | $\dashv$  | $\dashv$ | -        |          |          | -        | $\dashv$ | $\dashv$     | -         |
|  | 7        | 1             | +-      | tt              | 十        | $\dashv$ | +        | $\dashv$   | 1 |                        | 57           |                 | $\dashv$ | +        | +       | ╁                  | ┼-              | $\vdash$        | -        | ŀ        |          | 107          | $\dashv$  |          | -        |          |          | $\vdash$ | $\dashv$ | $\dashv$     | -         |
|  | 8        | 1             | $\top$  | Ħ               | $\dashv$ | 寸        |          |            | 1 |                        | 58           | П               |          | 十        | $\top$  | ╁                  | T               |                 |          | r        |          | 108          |   | _        | $\neg$   | _        | -        |          | -        | +            | $\neg$    |
|  | 9        | 1             | 1       |                 | $\neg$   | ╛        |          |            | 1 |                        | 59           | Ħ               | $\neg$   | $\top$   | $\top$  | 1                  |                 |                 | $\dashv$ | ŀ        |          | 109          | $\dashv$  | $\dashv$ |          |          | _        |          | _        | $\dashv$     | $\neg$    |
|  | 10       | 1             | I       |                 |          |          | $\Box$   |            | ] |                        | 60           |                 |          | ▔        |         |                    | 1               |                 | $\neg$   | Ī        |          | 110          | $\dashv$  |          |          | Τ        | П        | $\dashv$ | $\dashv$ | $\dashv$     | $\neg$    |
|  | 11       | 1             |         |                 |          |          | I        |            | ] |                        | 61           |                 |          | $\Box$   | I       |                    |                 |                 |          | Ī        |          | 111          | 寸   | 7        |          |          | П        |          |          | 1            | $\exists$ |
|  | 12       | 1             | L       |                 | I        | $\Box$   |          |            | ] |                        | 62           |                 | $\Box$   | $\perp$  | $\perp$ | $oxed{\mathbb{L}}$ |                 |                 |          |          |          | 112          |   | 丁        |          |          |          |          |          |              |           |
| <u> </u>   | 13       |               |         |                 | _[       | [        | $\perp$  | 1          | 1 |                        | 63           |                 | $\bot$   |          |         | L                  |                 |                 |          |          |          | 113          |   |          |          |          |          |          |          |              |           |
| <u> </u>   | 14       |               | $\perp$ | $\sqcup$        | _        | _        | $\perp$  |            | 1 | <u></u>                | 64           |                 | $\perp$  | $\perp$  |         |                    | $oxed{\Box}$    | Ш               | $\Box$   |          |          | 114          | [   |          |          |          |          |          |          |              |           |
| <u> </u>   | 15       |               | -       | $\sqcup$        | [        | $\dashv$ | +        | - -        | 1 |                        | 65           | $\sqcup$        | _        | $\perp$  | $\perp$ | 1                  |                 |                 | $\dashv$ | L        |          | 115          |   | _        |          |          |          |          |          | $\Box$       |           |
|  | 16       | <b></b>       | +-      | $\vdash$        | -        | 4        |          | -          | ł | <u> </u>               | 66           | Н               |          | 4        | $\perp$ | $\bot$             | _               | $\sqcup$        | _        | -        |          | 116          | _   | _        |          |          | Щ        |          |          |              |           |
| <u> </u>   | 17<br>18 | ╙             | +-      | $\vdash$        | $\dashv$ | -        | +        | +          | - |                        | 67           | $\sqcup$        |          | +        | +       | $\perp$            | -               | $\sqcup$        | $\dashv$ | }-       |          | 117          |   | _        |          |          | Щ        |          |          | $\downarrow$ |           |
| <u> </u>   | 19       | $\vdash$      | +-      | $\vdash \vdash$ | -        | $\dashv$ | +        | -          | ł | <u> </u>               | 68           | $\vdash \vdash$ | $\dashv$ | +        | +       | +                  | 1-              | $\dashv$        | $\dashv$ | ŀ        |          | 118          |   | -        | _        |          | Ш        |          |          | 4            | _         |
|  | 20       |               | +       | $\vdash \vdash$ | -+       | $\dashv$ | +        | +          | 1 | <u> </u>               | 69<br>70     | $\vdash$        | $\dashv$ | +        | +-      | +                  | $\vdash$        | $\vdash$        | $\dashv$ | F        |          | 119          | $\dashv$  |          | -        |          | $\vdash$ |          | $\dashv$ | 4            |           |
| <del> </del>                                     | 21       |               | +-      | $\vdash \vdash$ |          | $\dashv$ | -        | +          | 1 | <del></del>            | 71           | $\vdash$        | +        | +        | +       | +-                 | $\vdash$        |                 | $\dashv$ | H        |          | 120          |   |          | $\dashv$ | Щ.       | $\vdash$ |          | $\dashv$ | $\dashv$     | _         |
| <del>                                     </del> | 22       | +             | +       | $\vdash$        | $\dashv$ | -+       | $\dashv$ | +          | ł | $\vdash$               | 72           | $\vdash$        | +        | -        | +       | +-                 | ╁               | $\dashv$        | $\dashv$ | -        |          | 121<br>122   | -   |          | $\dashv$ | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$     |           |
|  | 23       |               | +       | -               | $\dashv$ | $\dashv$ | +        | +          | i | H                      | 73           | $\vdash$        | +        | +        | +       | +-                 | $\vdash$        | $\vdash$        | $\dashv$ | -        |          | 123          | $\dashv$  | $\dashv$ | -        |          |          | -        | $\dashv$ | $\dashv$     | $\dashv$  |
| $\vdash$   | 24       |               | +-      | ╅               | -+       | $\dashv$ | $\pm$    |            | ſ |                        | 74           | $\vdash$        | $\dashv$ | +        | +       | +                  | $\vdash$        | $\dashv$        | $\dashv$ | H        |          | 124          | <del>-  </del>                                    | $\dashv$ | $\dashv$ |          | Н        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 25       |               | 1       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |            | 1 |                        | 75           |                 | $\dashv$ | $\dashv$ | +       | +                  | Н               | $\dashv$        | $\dashv$ | F        |          | 125          | +   | $\dashv$ | -        |          | Н        | -        | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 26       |               |         | $\Box$          | ヿ        | $\neg$   | $\top$   | 1-         | 1 |                        | 76           | $\sqcap$        | _        | $\dashv$ | 1       | 1                  | П               | $\dashv$        | $\dashv$ | r        |          | 126          |   | -        | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 27       |               |         | $\Box$          | _1       |          |          |            | ] |                        | 77           | $\Box$          |          | $\top$   | T       | 1                  | П               |                 | $\neg$   | r        |          | 127          | _   | 十        | $\dashv$ |          | Н        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 28       |               | Ι       |                 |          |          |          |            | ] |                        | 78           |                 | I        | 十        | $\top$  | 1                  | П               | $\Box$          | $\neg$   | ı        |          | 128          | 寸   | _        | $\dashv$ |          | $\Box$   | $\dashv$ | $\dashv$ | 寸            | $\dashv$  |
|  | 29       | $\Box \Gamma$ |         |                 | $\Box$   |          |          |            |   |                        | 79           |                 |          |          |         |                    |                 |                 |          |          |          | 129          |   | $\neg$   |          |          |          | 一        | $\dashv$ | $\dashv$     | $\exists$ |
|  | 30       |               |         | Щ               | $\bot$   | $\perp$  | Ţ        |            |   |                        | 80           |                 |          |          |         |                    |                 |                 |          |          |          | 130          |   |          |          |          |          |          |          | _            |           |
|  | 31       |               |         | Ш               | _[       | $\bot$   |          |            |   |                        | 81           | П               | $\Box$   | $\perp$  |         |                    |                 |                 |          |          |          | 131          |   |          |          |          |          |          |          |              |           |
|  | 32       |               | ╀-      | $\sqcup$        | _        | 4        | _ _      |            |   |                        | 82           | Щ               | $\perp$  | _        |         | 1                  | Ш               |                 |          | Ĺ        | ]        | 132          |   |          |          |          |          |          | $\Box$   |              |           |
|  | 33       | $\perp$       | 4       | $\sqcup$        | 4        | -        | _        | -          |   | $\sqcup$               | 83           | Ш               | _        | $\bot$   | 4       | $\bot$             | Ш               | $\Box$          | _        | L        |          | 133          |   |          | _        |          |          | ]        |          |              |           |
|  | 34<br>35 | +             | -       |                 | 4        | $\dashv$ |          |            |   | $\vdash \vdash$        | 84           | ${oxdot}$       | _        | +        | +       | $\perp$            |                 | $\dashv$        | _        | L        |          | 134          | _   | _        | _        |          |          |          | _        | $\perp$      | _         |
|  | 36       | -+            | +       | $\vdash$        | -        | $\dashv$ | +        | +          |   | $\vdash$               | 85           | $\vdash$        | +        | +        | -       | +                  | $\vdash$        |                 | $\dashv$ | -        |          | 135          | $\dashv$  | _        |          |          |          | _        | $\dashv$ | 4            | _         |
|  | 37       | -+            | +       | $\vdash$        | -+       | $\dashv$ | +        | +          |   |                        | 86<br>87     | $\vdash \vdash$ | $\dashv$ | +        | +-      | +                  | $\vdash \vdash$ |                 | $\dashv$ | -        |          | 136          | -   |          | 4        | _        |          | _        | $\dashv$ | $\downarrow$ | 4         |
| <u> </u>   | 38       | $\dashv$      | +       | $\vdash$        | +        | $\dashv$ | -+-      | +          |   |                        | 88           | -+              | $\dashv$ | +        | +       | +                  | ╂╾┤             | -               | $\dashv$ | -        |          | 137          |   | -        | 4        | $\dashv$ | $\sqcup$ | _        | 4        | 4            | 4         |
| -  | 39       | +             | +       | $\vdash$        | $\dashv$ | ┰        | $\dashv$ | +          |   |                        | 89           | $\vdash$        | $\dashv$ | +        | +       | +                  | $\vdash$        | -               | $\dashv$ | -        |          | 138<br>139   | $\dashv$  | -        | $\dashv$ | $\dashv$ |          | -        | $\dashv$ | +            | 4         |
| <b></b> -  | 40       | -             | +-      | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +          |   |                        | 90           | $\vdash$        | $\dashv$ | +        | +       | +                  | $\vdash$        | $\dashv$        | $\dashv$ | ┝        | $\dashv$ | 140          | +   | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | +            | 4         |
| <b></b>  | 41       | $\dashv$      | +-      | $\vdash$        | $\dashv$ | 十        | $\dashv$ | +-         |   | $\vdash \vdash \vdash$ | 91           | $\vdash$        | +        | +        | +-      | ╁                  | $\vdash$        | $\dashv$        | $\dashv$ | $\vdash$ |          | 141          |   | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$     | $\dashv$  |
|  | 42       | +             | +       | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | +-         |   |                        | 92           |                 | +        | +        | +-      | ╁                  | $\vdash$        | $\dashv$        | $\dashv$ | H        |          | 142          | -   | $\dashv$ | $\dashv$ | -        | -        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 43       | $\neg \vdash$ | 1       | $\sqcap$        | 十        | $\dashv$ | $\dashv$ | $\top$     |   | ┝╧┤                    | 93           | $\vdash$        | +        | $\top$   | 十       | t                  | $\forall$       | +               | $\dashv$ | H        |          | 143          | +   | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$ | +            | $\dashv$  |
|  | 44       | $\dashv$      | $\top$  | $\Box$          | 十        | $\top$   | +        | 1-         |   |                        | 94           | $\vdash$        | $\dashv$ | +        | +       | T                  | Н               | $\dashv$        | $\dashv$ | H        | $\dashv$ | 144          | +   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | +            | $\dashv$  |
|  | 45       |               |         |                 | ┪        | 寸        | $\dashv$ | 7          |   |                        | 95           | $\vdash$        | $\dashv$ | $\top$   | ╁       | †                  | $\Box$          | $\dashv$        | $\neg$   | F        |          | 145          | -   | $\dashv$ | 7        | $\dashv$ |          | $\dashv$ | -        | $\dashv$     | $\dashv$  |
|  | 46       |               |         |                 | _        |          |          |            |   |                        | 96           | $\Box$          | 十        | $\dashv$ | 十       | T                  | П               | $\neg$          |          |          |          | 146          | 7   | $\dashv$ | 7        |          |          | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  |
|  | 47       |               |         |                 |          |          |          |            |   |                        | 97           |                 |          | 丁        |         |                    | П               |                 | _1       |          | $\Box$   | 147          | 一   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 一        | 十        | 十            |           |
|  | 48       | $\Box$        |         | П               |          |          |          |            |   |                        | 98           |                 |          | ╧        |         | I                  |                 |                 |          | Ī        |          | 148          |   |          | $\neg$   |          | $\neg$   | _        | $\dashv$ | +            | $\neg$    |
|  | 49       | $\bot$        | $\perp$ | $\Box$          | _[       |          |          |            |   |                        | 99           |                 | $\Box$   | $\perp$  |         | $\Box$             |                 |                 |          |          |          | 149          | 丁   |          |          |          |          |          | $\Box$   |              |           |
| L  | 50       | 丄             |         | $\sqcup L$      |          |          |          |            |   |                        | 100          |                 | $\perp$  | $\perp$  |         | 厂                  | $\Box$          |                 | _]       |          |          | 150          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\Box$   |          |          |          |          | T        |              |           |